



SYR-HSD-5002 Substitute Sequence Listing.ST25.txt
SEQUENCE LISTING

<110> SYRRX, INC.

<120> PROBE, ASSAY AND KITS FOR DETECTING 11B-HYDROXYSTEROID
DEHYDROGENASE AND MODULATORS THEREOF

<130> SYR-HSD-5002-U

<140> US 10/800,140

<141> 2004-03-11

<160> 7

<170> PatentIn version 3.2

<210> 1

<211> 292

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<222> (1)..(292)

<223> Amino acid sequence for full-length human wild type
11B-hydroxysteroid dehydrogenase

<400> 1

Met Ala Phe Met Lys Lys Tyr Leu Leu Pro Ile Leu Gly Leu Phe Met
1 5 10 15

Ala Tyr Tyr Tyr Tyr Ser Ala Asn Glu Glu Phe Arg Pro Glu Met Leu
20 25 30

Gln Gly Lys Lys Val Ile Val Thr Gly Ala Ser Lys Gly Ile Gly Arg
35 40 45

Glu Met Ala Tyr His Leu Ala Lys Met Gly Ala His Val Val Val Thr
50 55 60

Ala Arg Ser Lys Glu Thr Leu Gln Lys Val Val Ser His Cys Leu Glu
65 70 75 80

Leu Gly Ala Ala Ser Ala His Tyr Ile Ala Gly Thr Met Glu Asp Met
85 90 95

Thr Phe Ala Glu Gln Phe Val Ala Gln Ala Gly Lys Leu Met Gly Gly
100 105 110

Leu Asp Met Leu Ile Leu Asn His Ile Thr Asn Thr Ser Leu Asn Leu
115 120 125

Phe His Asp Asp Ile His His Val Arg Lys Ser Met Glu Val Asn Phe
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130

135

140

Leu Ser Tyr Val Val Leu Thr Val Ala Ala Leu Pro Met Leu Lys Gln
145 150 155 160

Ser Asn Gly Ser Ile Val Val Val Ser Ser Leu Ala Gly Lys Val Ala
165 170 175

Tyr Pro Met Val Ala Ala Tyr Ser Ala Ser Lys Phe Ala Leu Asp Gly
180 185 190

Phe Phe Ser Ser Ile Arg Lys Glu Tyr Ser Val Ser Arg Val Asn Val
195 200 205

Ser Ile Thr Leu Cys Val Leu Gly Leu Ile Asp Thr Glu Thr Ala Met
210 215 220

Lys Ala Val Ser Gly Ile Val His Met Gln Ala Ala Pro Lys Glu Glu
225 230 235 240

Cys Ala Leu Glu Ile Ile Lys Gly Gly Ala Leu Arg Gln Glu Glu Val
245 250 255

Tyr Tyr Asp Ser Ser Leu Trp Thr Thr Leu Leu Ile Arg Asn Pro Cys
260 265 270

Arg Lys Ile Leu Glu Phe Leu Tyr Ser Thr Ser Tyr Asn Met Asp Arg
275 280 285

Phe Ile Asn Lys
290

<210> 2
<211> 286
<212> PRT
<213> Artificial

<220>
<223> Amino acid sequence for residues 24-292 of 11B-hydroxysteroid
dehydrogenase with a N-terminal MKHQHQHQHQHQQPL tag

<400> 2

Met Lys His Gln His Gln His Gln His Gln His Gln His Gln Pro
1 5 10 15

Leu Asn Glu Glu Phe Arg Pro Glu Met Leu Gln Gly Lys Lys Val Ile
20 25 30

Val Thr Gly Ala Ser Lys Gly Ile Gly Arg Glu Met Ala Tyr His Leu
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SYR-HSD-5002 Substitute Sequence Listing.ST25.txt

35 40 45
 Ala Lys Met Gly Ala His Val Val Val Thr Ala Arg Ser Lys Glu Thr
 50 55 60
 Leu Gln Lys Val Val Ser His Cys Leu Glu Leu Gly Ala Ala Ser Ala
 65 70 75 80
 His Tyr Ile Ala Gly Thr Met Glu Asp Met Thr Phe Ala Glu Gln Phe
 85 90 95
 Val Ala Gln Ala Gly Lys Leu Met Gly Gly Leu Asp Met Leu Ile Leu
 100 105 110
 Asn His Ile Thr Asn Thr Ser Leu Asn Leu Phe His Asp Asp Ile His
 115 120 125
 His Val Arg Lys Ser Met Glu Val Asn Phe Leu Ser Tyr Val Val Leu
 130 135 140
 Thr Val Ala Ala Leu Pro Met Leu Lys Gln Ser Asn Gly Ser Ile Val
 145 150 155 160
 Val Val Ser Ser Leu Ala Gly Lys Val Ala Tyr Pro Met Val Ala Ala
 165 170 175
 Tyr Ser Ala Ser Lys Phe Ala Leu Asp Gly Phe Phe Ser Ser Ile Arg
 180 185 190
 Lys Glu Tyr Ser Val Ser Arg Val Asn Val Ser Ile Thr Leu Cys Val
 195 200 205
 Leu Gly Leu Ile Asp Thr Glu Thr Ala Met Lys Ala Val Ser Gly Ile
 210 215 220
 Val His Met Gln Ala Ala Pro Lys Glu Glu Cys Ala Leu Glu Ile Ile
 225 230 235 240
 Lys Gly Gly Ala Leu Arg Gln Glu Glu Val Tyr Tyr Asp Ser Ser Leu
 245 250 255
 Trp Thr Thr Leu Leu Ile Arg Asn Pro Cys Arg Lys Ile Leu Glu Phe
 260 265 270
 Leu Tyr Ser Thr Ser Tyr Asn Met Asp Arg Phe Ile Asn Lys
 275 280 285

SYR-HSD-5002 Substitute Sequence Listing.ST25.txt

<210> 3
 <211> 1405
 <212> DNA
 <213> Artificial

<220>
 <223> Human cDNA sequence encoding residues 24-292 of
 11B-hydroxysteroid dehydrogenase

<400> 3
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 gtgtcctaca ggagtcttca ggccagctcc ctgtcggatg gcttttatga aaaaatatct 120
 cctccccatt ctggggctct tcatggccta ctactactat tctgcaaacg aggaattcag 180
 accagagatg ctccaaggaa agaaagtgat tgtcacaggg gccagcaaag ggatcggaag 240
 agagatggct tatcatctgg cgaagatggg agcccatgtg gtggtgacag cgagggtcaaa 300
 agaaactcta cagaagggtg tatcccactg cctggagctt ggagcagcct cagcacacta 360
 cattgctggc accatggaag acatgacctt cgagagcaa tttgttgccc aagcaggaaa 420
 gctcatggga ggactagaca tgctcattct caaccacatc accaactctt ctttgaatct 480
 ttttcatgat gatattcacc atgtgcgcaa aagcatggaa gtcaacttcc tcagttacgt 540
 ggtcctgact gtagctgcct tgcccatgct gaagcagagc aatggaagca ttgttgtcgt 600
 ctctctctctg gctgggaaag tggcttatcc aatgggtgct gcctattctg caagcaagtt 660
 tgctttggat gggttcttct cctccatcag aaaggaatat tcagtgtcca gggccaatgt 720
 atcaatcact ctctgtgttc ttggcctcat agacacagaa acagccatga aggcagtttc 780
 tgggatagtc catatgcaag cagctccaaa ggaggaatgt gccctggaga tcatcaaagg 840
 gggagctctg cgccaagaag aagtgtatta tgacagctca ctctggacca ctcttctgat 900
 cagaaatcca tgcaggaaga tcctggaatt tctctactca acgagctata atatggacag 960
 attcataaac aagtaggaac tccctgaggg ctgggcatgc tgagggattt tgggactggt 1020
 ctgtctcatg tttatctgag ctcttatcta tgaagacatc ttcccagagt gtccccagag 1080
 acatgcaagt catgggtcac acctgacaaa tggaaggagt tcctctaaca ttgcaaaaat 1140
 ggaaatgtaa taataatgaa tgtcatgcac cgctgcagcc agcagttgta aaattgtag 1200
 taaacatagg tataattacc agatagttat attaaattta tatcttatat ataataatat 1260
 gtgatgatta atacaatatt aattataata aaggtcacat aaactttata aattcataac 1320
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<210> 4
 <211> 24
 <212> DNA
 <213> Artificial

SYR-HSD-5002 Substitute Sequence Listing.ST25.txt

<220>
 <223> DNA sequence encoding PCR primer hsd1_24-f
 <400> 4
 aacgaggaat tcagaccaga gatg 24
 <210> 5
 <211> 24
 <212> DNA
 <213> Artificial
 <220>
 <223> DNA sequence encoding PCR primer hsd1_292-r
 <400> 5
 ttacttggtt atgaatctgt ccat 24
 <210> 6
 <211> 23
 <212> DNA
 <213> Artificial
 <220>
 <223> DNA sequence encoding PCR primer hsdC272Sqcf
 <400> 6
 tcagaaatcc atccaggaag atc 23
 <210> 7
 <211> 23
 <212> DNA
 <213> Artificial
 <220>
 <223> DNA sequence encoding PCR primer hsdC272Sqcr
 <400> 7
 gatcttcctg gatggatttc tga 23

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<160> 7
<170> PatentIn version 3.2
<210> 1
<211> 292
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(292)
<223> Amino acid sequence for full-length human wild type
11B-hydroxysteroid dehydrogenase

<400> 1

Met Ala Phe Met Lys Lys Tyr Leu Leu Pro Ile Leu Gly Leu Phe Met
1 5 10 15

Ala Tyr Tyr Tyr Tyr Ser Ala Asn Glu Glu Phe Arg Pro Glu Met Leu
20 25 30

Gln Gly Lys Lys Val Ile Val Thr Gly Ala Ser Lys Gly Ile Gly Arg
35 40 45

Glu Met Ala Tyr His Leu Ala Lys Met Gly Ala His Val Val Val Thr
50 55 60

Ala Arg Ser Lys Glu Thr Leu Gln Lys Val Val Ser His Cys Leu Glu
65 70 75 80

Leu Gly Ala Ala Ser Ala His Tyr Ile Ala Gly Thr Met Glu Asp Met
85 90 95

Thr Phe Ala Glu Gln Phe Val Ala Gln Ala Gly Lys Leu Met Gly Gly
100 105 110

Leu Asp Met Leu Ile Leu Asn His Ile Thr Asn Thr Ser Leu Asn Leu
115 120 125

Phe His Asp Asp Ile His His Val Arg Lys Ser Met Glu Val Asn Phe
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Leu Ser Tyr Val Val Leu Thr Val Ala Ala Leu Pro Met Leu Lys Gln
145 150 155 160

Ser Asn Gly Ser Ile Val Val Val Ser Ser Leu Ala Gly Lys Val Ala
165 170 175

Tyr Pro Met Val Ala Ala Tyr Ser Ala Ser Lys Phe Ala Leu Asp Gly
180 185 190

Phe Phe Ser Ser Ile Arg Lys Glu Tyr Ser Val Ser Arg Val Asn Val
195 200 205

Ser Ile Thr Leu Cys Val Leu Gly Leu Ile Asp Thr Glu Thr Ala Met
210 215 220

Lys Ala Val Ser Gly Ile Val His Met Gln Ala Ala Pro Lys Glu Glu
225 230 235 240

Cys Ala Leu Glu Ile Ile Lys Gly Gly Ala Leu Arg Gln Glu Glu Val
245 250 255

Tyr Tyr Asp Ser Ser Leu Trp Thr Thr Leu Leu Ile Arg Asn Pro Cys
260 265 270

Arg Lys Ile Leu Glu Phe Leu Tyr Ser Thr Ser Tyr Asn Met Asp Arg
275 280 285

Phe Ile Asn Lys
290

<210> 2
<211> 286
<212> PRT
<213> Artificial

<220>
<223> Amino acid sequence for residues 24-292 of 11B-hydroxysteroid
dehydrogenase with a N-terminal MKHQHQHQHQHQQPL tag

<400> 2

Met Lys His Gln His Gln His Gln His Gln His Gln His Gln Pro
1 5 10 15

Leu Asn Glu Glu Phe Arg Pro Glu Met Leu Gln Gly Lys Lys Val Ile
20 25 30

Val Thr Gly Ala Ser Lys Gly Ile Gly Arg Glu Met Ala Tyr His Leu
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35 40 45
 Ala Lys Met Gly Ala His Val Val Val Thr Ala Arg Ser Lys Glu Thr
 50 55 60
 Leu Gln Lys Val Val Ser His Cys Leu Glu Leu Gly Ala Ala Ser Ala
 65 70 75 80
 His Tyr Ile Ala Gly Thr Met Glu Asp Met Thr Phe Ala Glu Gln Phe
 85 90 95
 Val Ala Gln Ala Gly Lys Leu Met Gly Gly Leu Asp Met Leu Ile Leu
 100 105 110
 Asn His Ile Thr Asn Thr Ser Leu Asn Leu Phe His Asp Asp Ile His
 115 120 125
 His Val Arg Lys Ser Met Glu Val Asn Phe Leu Ser Tyr Val Val Leu
 130 135 140
 Thr Val Ala Ala Leu Pro Met Leu Lys Gln Ser Asn Gly Ser Ile Val
 145 150 155 160
 Val Val Ser Ser Leu Ala Gly Lys Val Ala Tyr Pro Met Val Ala Ala
 165 170 175
 Tyr Ser Ala Ser Lys Phe Ala Leu Asp Gly Phe Phe Ser Ser Ile Arg
 180 185 190
 Lys Glu Tyr Ser Val Ser Arg Val Asn Val Ser Ile Thr Leu Cys Val
 195 200 205
 Leu Gly Leu Ile Asp Thr Glu Thr Ala Met Lys Ala Val Ser Gly Ile
 210 215 220
 Val His Met Gln Ala Ala Pro Lys Glu Glu Cys Ala Leu Glu Ile Ile
 225 230 235 240
 Lys Gly Gly Ala Leu Arg Gln Glu Glu Val Tyr Tyr Asp Ser Ser Leu
 245 250 255
 Trp Thr Thr Leu Leu Ile Arg Asn Pro Cys Arg Lys Ile Leu Glu Phe
 260 265 270
 Leu Tyr Ser Thr Ser Tyr Asn Met Asp Arg Phe Ile Asn Lys
 275 280 285

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<210> 3
 <211> 1405
 <212> DNA
 <213> Artificial

<220>
 <223> Human cDNA sequence encoding residues 24-292 of
 11B-hydroxysteroid dehydrogenase

<400> 3
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 gtgtcctaca ggagtcttca ggccagctcc ctgtcggatg gcttttatga aaaaatatct 120
 cctccccatt ctggggctct tcatggccta ctactactat tctgcaaacg aggaattcag 180
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 agaaactcta cagaagggtg tatccactg cctggagctt ggagcagcct cagcacacta 360
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 gtgatgatta atacaatatt aattataata aaggtcacat aaactttata aattcataac 1320
 tggtagctat aacttgagct tattcaggat ggtttcttta aaaccataaa ctgtacaaat 1380
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<210> 4
 <211> 24
 <212> DNA
 <213> Artificial

SYR-HSD-5002 Substitute Sequence Listing.ST25.txt

<220>
 <223> DNA sequence encoding PCR primer hsd1_24-f

 <400> 4
 aacgaggaat tcagaccaga gatg 24

 <210> 5
 <211> 24
 <212> DNA
 <213> Artificial

 <220>
 <223> DNA sequence encoding PCR primer hsd1_292-r

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 ttacttgttt atgaatctgt ccat 24

 <210> 6
 <211> 23
 <212> DNA
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 <220>
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 <400> 6
 tcagaaatcc atccaggaag atc 23

 <210> 7
 <211> 23
 <212> DNA
 <213> Artificial

 <220>
 <223> DNA sequence encoding PCR primer hsdC272Sqcr

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